Using Infortrend EonStor FC-host Storage with HP-UX 11i

Application Note

Abstract

This application note explains the basic configuration steps of using Infortrend EonStor FC-host storage systems with HP-UX 11i to realize a data center delivering maximized ROI, simplified management, optimized performance and operational resilience.

Using EonStor Storage Systems in HP-UX 11i Environments

The EonStor family is Infortrend's first branded storage product line. The numerous EonStor installations around the world have helped numberless users achieve business success in different industries. The widely-proven advantages of EonStor arrays include exceptional throughput power, availability, scalability, management easiness and cost-efficiency. EonStor FC-host storage systems have now been proven compatible with HP's enterprise-class operating system, HP-UX 11i. Using these high-quality storage systems in an HP-UX 11i environment can help users better increase the value IT contributes with reduced TCO. Below are the example configuration steps of using Veritas Enterprise Administrator (VEA) to making the storage space on EonStor systems available to an HP server installed with HP-UX 11i

Example Configuration Steps

Step 1. Create a Logical Drive (LD) on EonStor Storage and Map it to the HP Server

LD creation and LUN mapping on EonStor storage can be done in various ways, including SANWatch management suite, terminal via RS-232C, LCD keypad panel and etc. For configuration details, please refer to your SANWatch User's Manual or Firmware Operation Manual.

Note: SANWatch management suite can NOT be installed in an HP-UX 11i environment. For the system requirements of SANWatch management host, please refer to the System Requirements section in your SANWatch User's Manual.

Step 2. Scan the New Disk

In HP-UX, click the icon of *Personal Applications*, and then select *Terminal*.

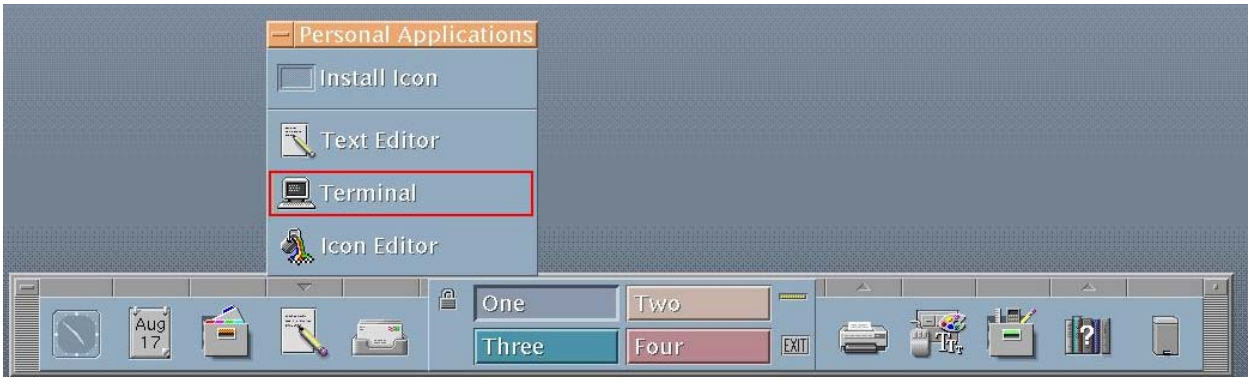

Figure 1. Open Terminal

Type the following command in the terminal to ensure that HP-UX has detected the new disk:

#ioscan –fnC disk

The scanning result will look similar to the following.

ioscan -funC disk
Class I H/W Path Driver S/W State H/W Type Description
disk 5 0/0/2/1.0.16 UsbScsiAdaptor CLAIMED DEVICE USB SCSI Stack Adaptor
/dev/deviceFileSystem/Usb/MassStorage/dsk/disk@hp-1008+294=A60020000001
/dev/deviceFileSystem/Usb/MassStorage/rdsk/disk@hp-1008+294=A60020000001
disk 2 0/1/1/0.0.0.0.0 sdisk CLAIMED DEVICE HP IR Volume
/dev/dsk/c0t0d0 /dev/dsk/c0t0d0s2 /dev/rdsk/c0t0d0 /dev/rdsk/c0t0d0s2
/dev/dsk/c0t0d0s1 /dev/dsk/c0t0d0s3 /dev/rdsk/c0t0d0s1 /dev/rdsk/c0t0d0s3
#

Figure 2. Disk Scan Result

Then type the following command in the terminal to ensure that Veritas Enterprise Administrator (VEA) has detected the new disk:

#vxdisk scandisks

Step 3. Launch VEA

After ensuring that both HP-UX and VEA have detected the new disk, type the following command in the terminal to launch the VEA console:

#/opt/VRTSob/bin/vea&

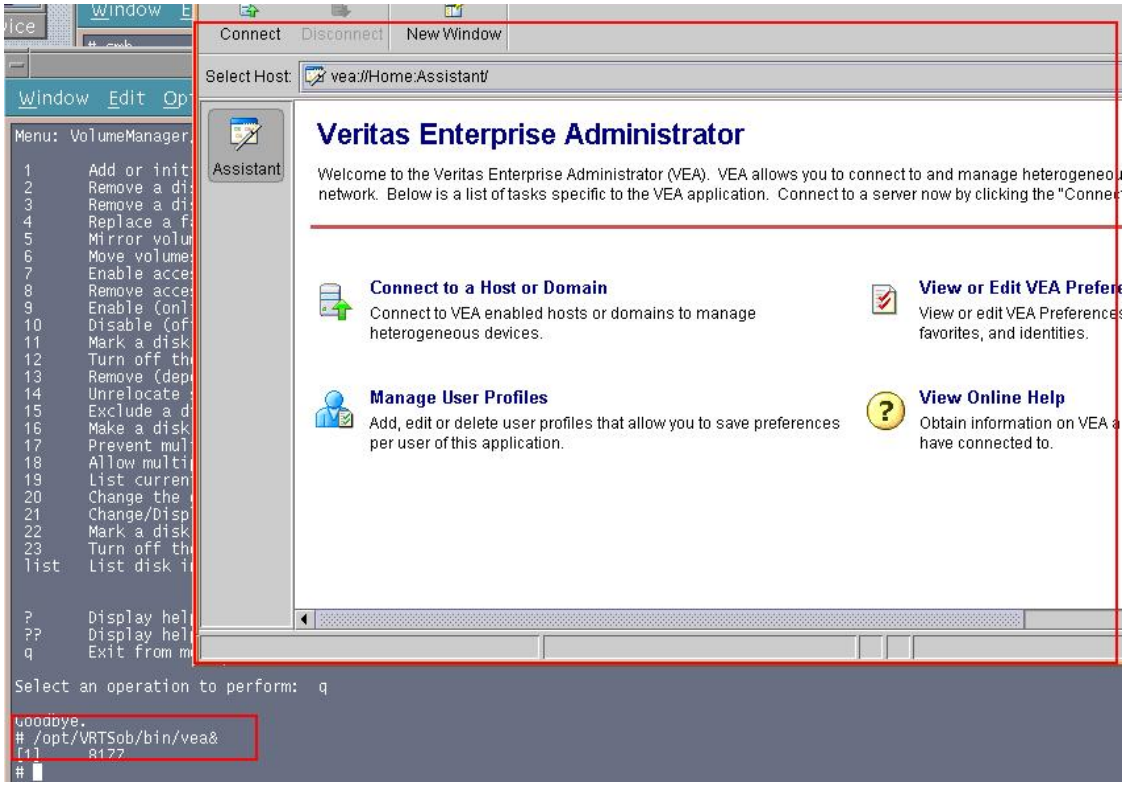
Connect
Disconnect
New Window
Select Host:
vea://Home:Assistant/
Assistant
Veritas Enterprise Administrator
Welcome to the Veritas Enterprise Administrator (VEA). VEA allows you to connect to and manage heterogeneou
network. Below is a list of tasks specific to the VEA application. Connect to a server now by clicking the "Connec
Connect to a Host or Domain
Connect to VEA enabled hosts or domains to manage heterogeneous devices.
View or Edit VEA Prefere
View or edit VEA Preferences favorites, and identities.
Manage User Profiles
Add, edit or delete user profiles that allow you to save preferences per user of this application.
View Online Help
Obtain information on VEA have connected to.
Select an operation to perform: q
Goodbye.
/opt/VRTSob/bin/vea&

Figure 3. Launch VEA

Step 4. Connect to a VEA Host

Click *Connect to a Host or Domain* in the VEA home page. In the pop-out Connect window, enter *localhost* as the host name and select *Connect Using: root@localhost*. Then click the *Connect* button.

Figure 4. Enter the Host Name and Select the Connection Method

Enter *root* as the username and your pre-set password. Then click *OK*.

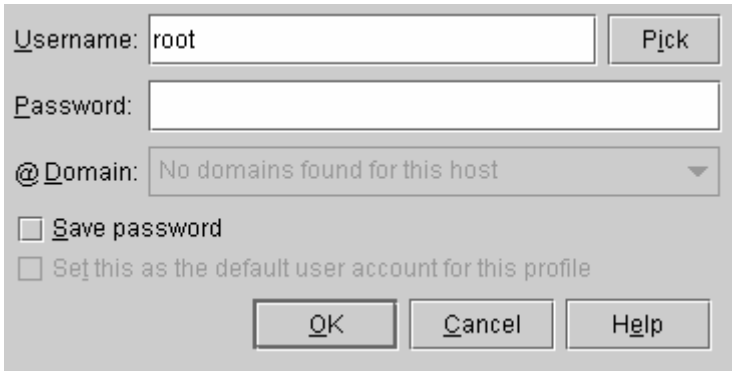

Figure 5. Enter Username and Password

The connection to the VEA host will be successfully established.

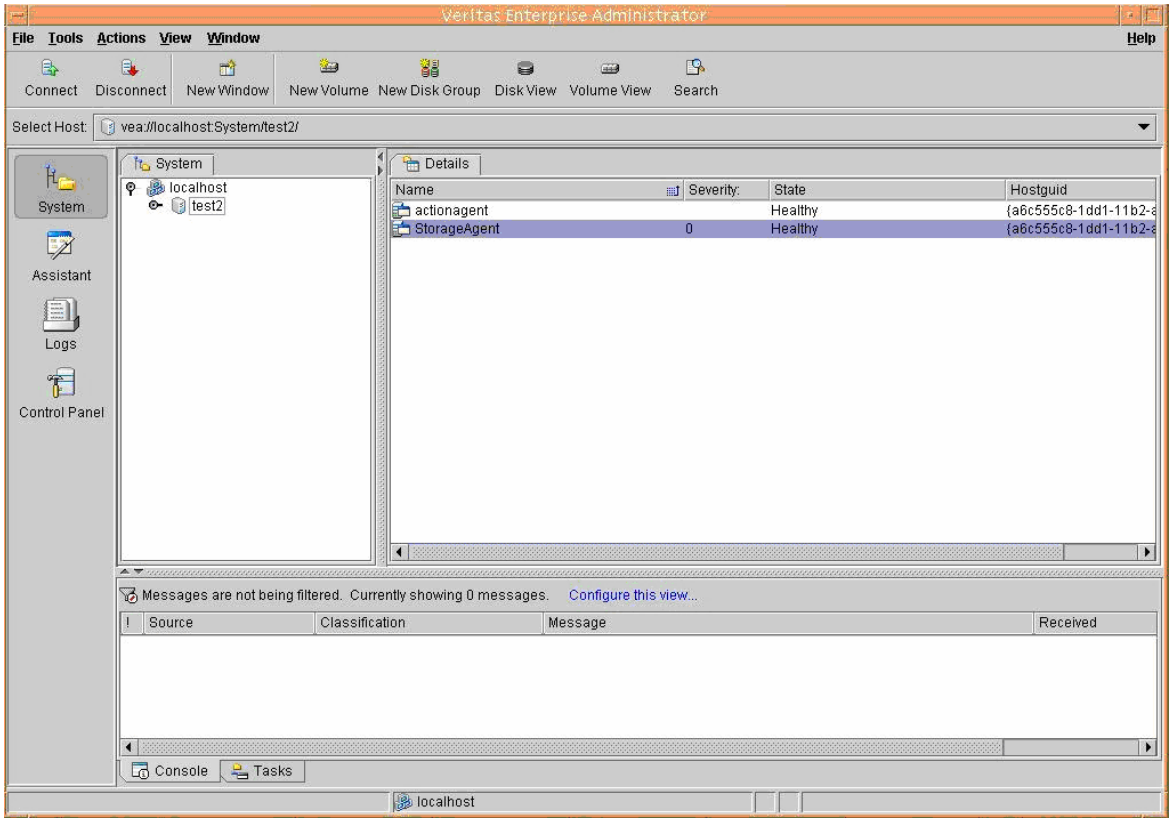

Figure 6. VEA Host

Step 5. **Create a New Disk Group**

In the left hand pane, select the newly-created disk and right click it. Then select *New Disk Group* from the menu.

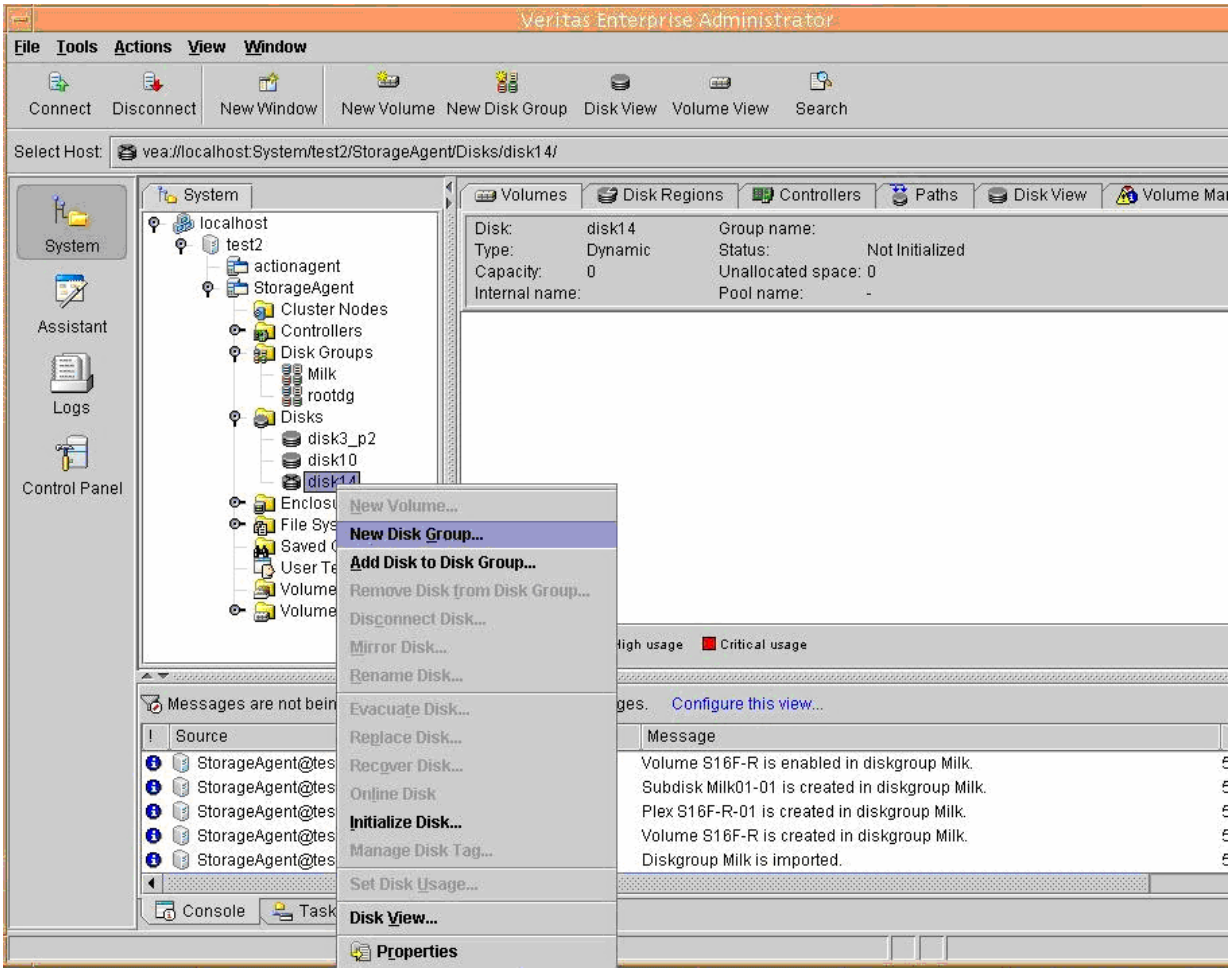

Figure 7. Create a New Disk Group - 1

In the New Disk Group Wizard, enter group name, select *Enable Cross-platform Data Sharing (CDS)*, and use the *Add* > button to move all the disks you want to include in the disk group from the *Available disks* column to the *Selected disks* column. Then click *Next*.

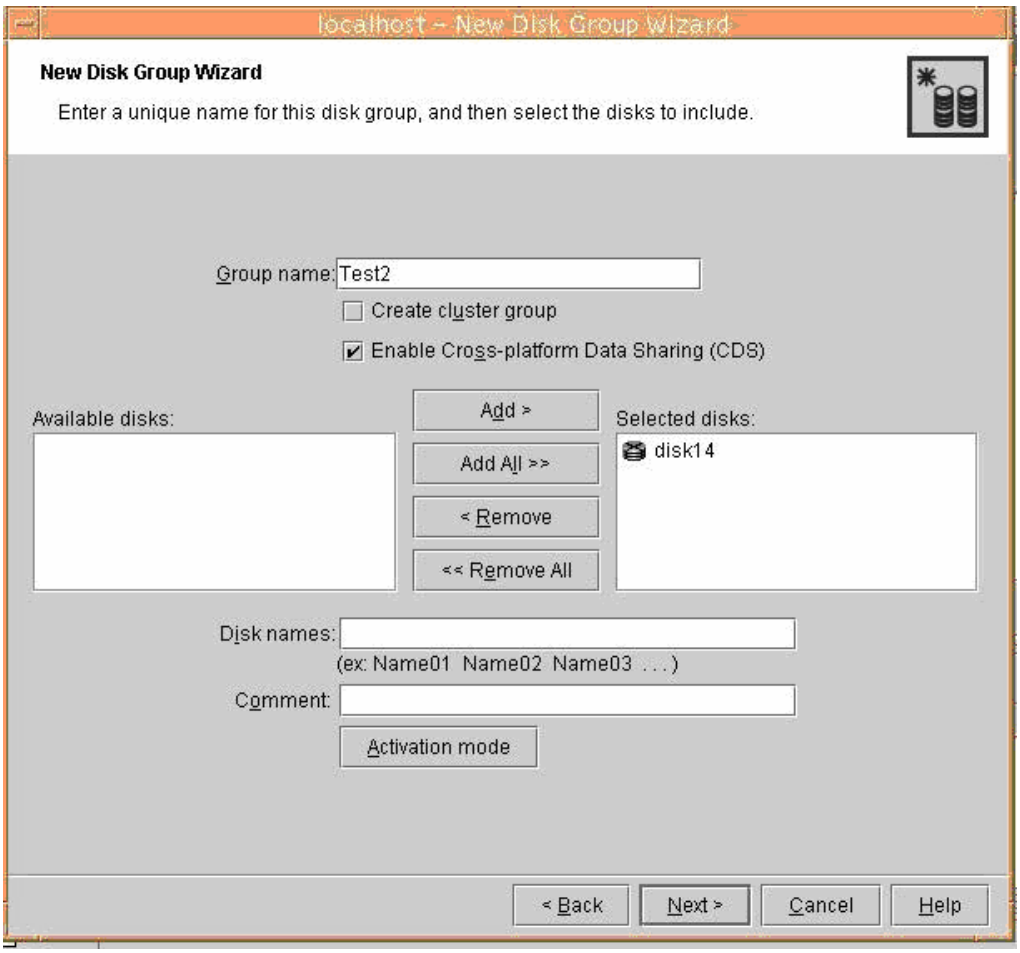

Figure 8. Create a New Disk Group – 2

After going through the creation process, a new disk group will show in the left pane.

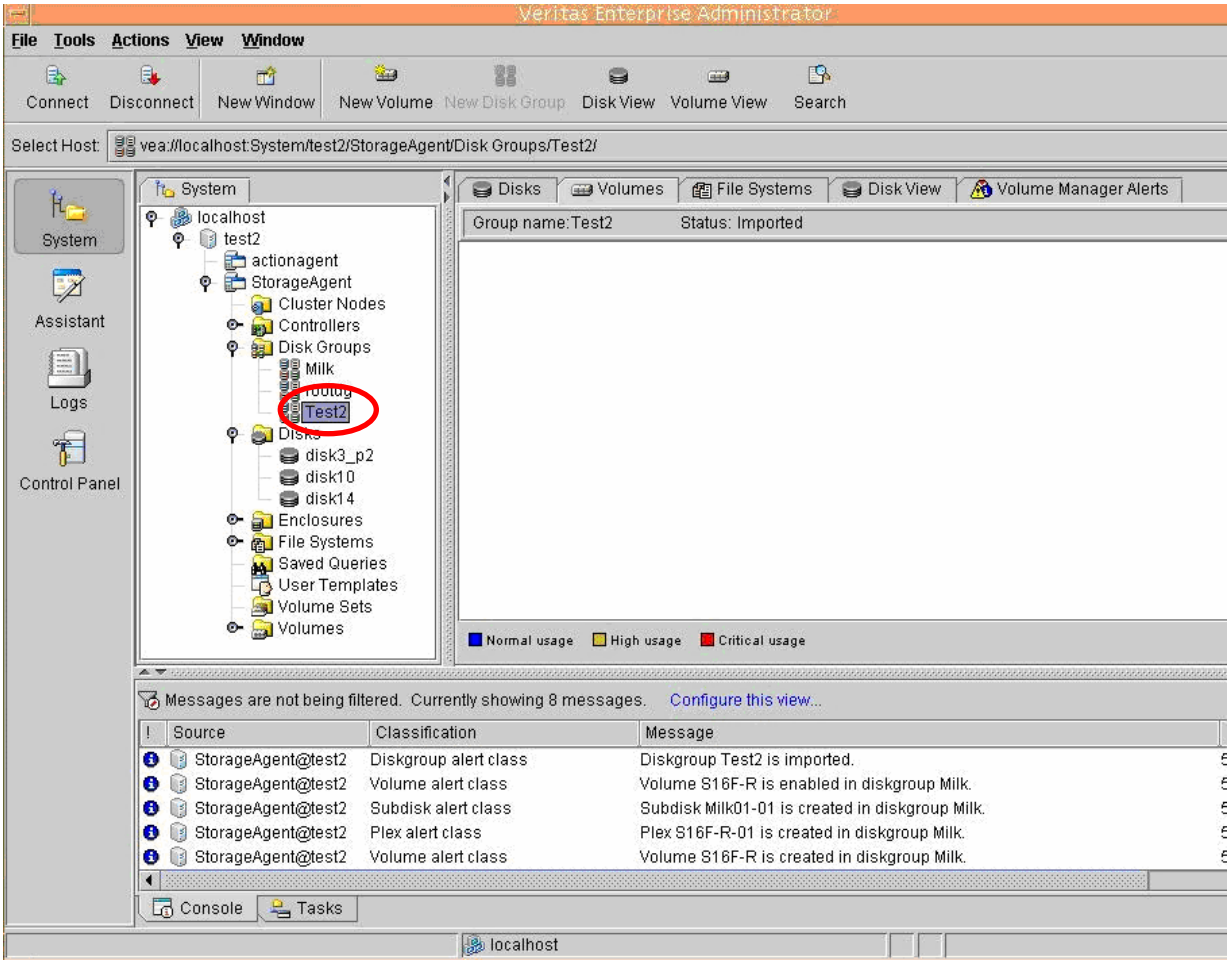

Figure 9. Create a New Disk Group – 3

Step 6. Create a New Volume

Select the newly-created disk group and right click it. Then select *New Volume* from the menu.

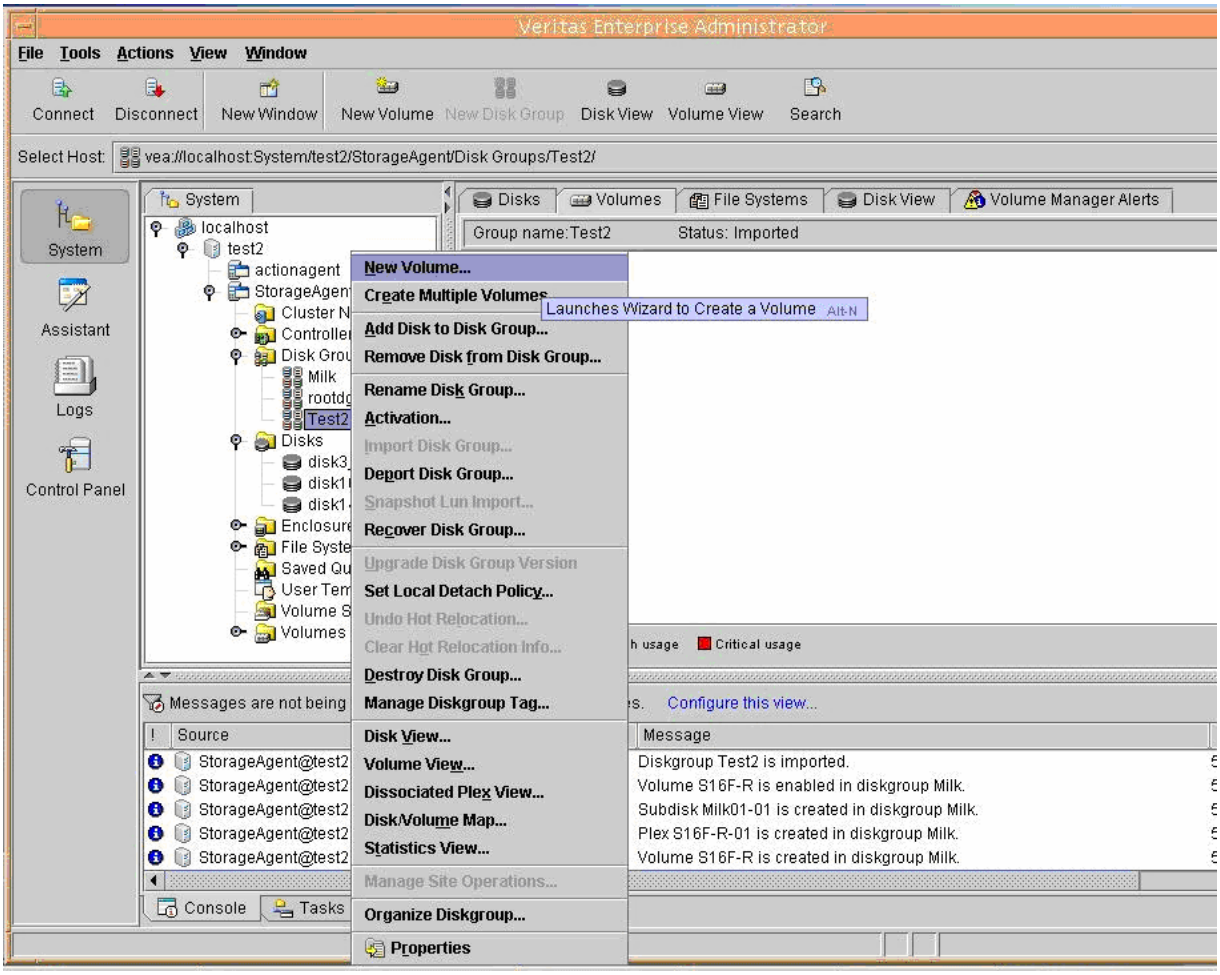

Figure 10. Create a New Volume – 1

In the New Volume Wizard, configure the method by which disks are selected for the volume and the volume attributes.

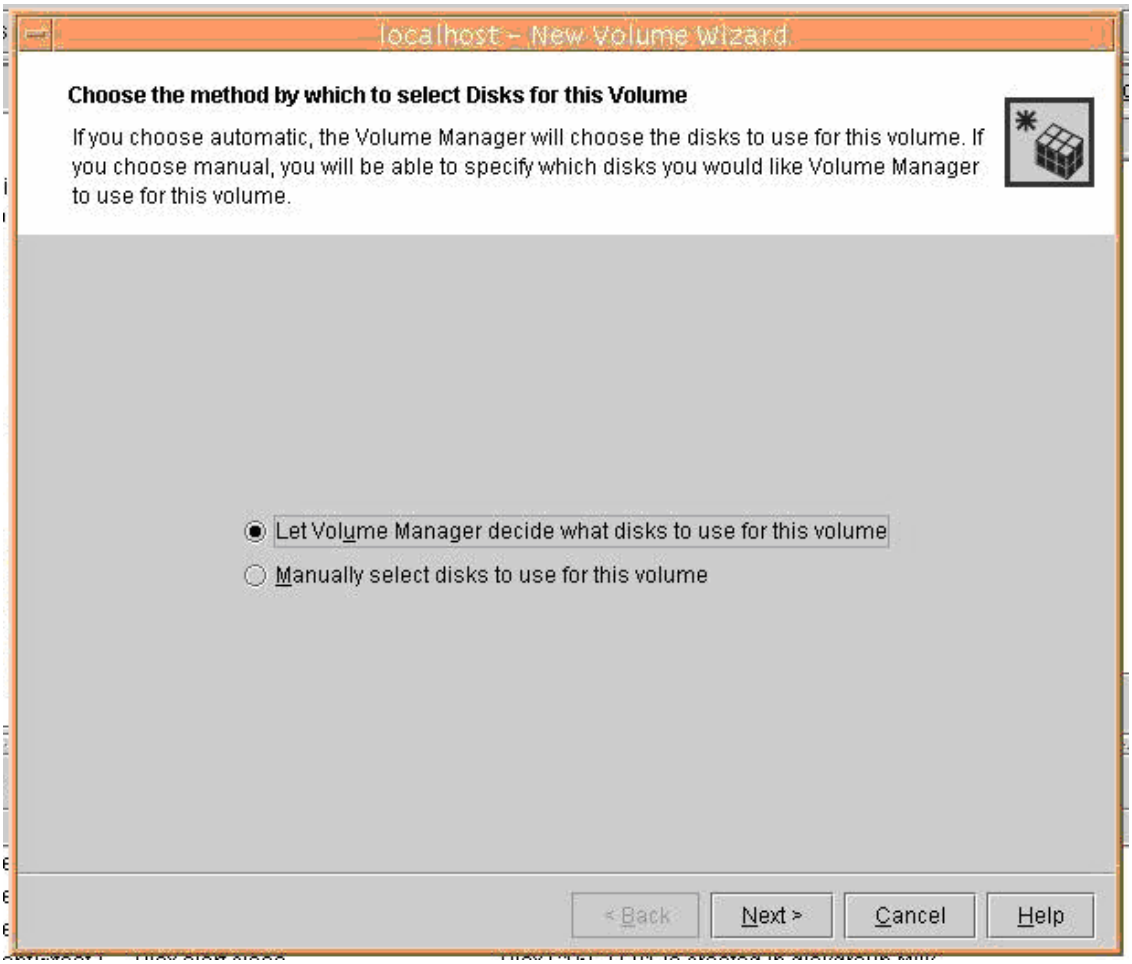
localhost - New Volume Wizard
Choose the method by which to select Disks for this Volume
If you choose automatic, the Volume Manager will choose the disks to use for this volume. If you choose manual, you will be able to specify which disks you would like Volume Manager to use for this volume.
Let Volume Manager decide what disks to use for this volume
Manually select disks to use for this volume
< Back
Next >
Cancel
Help

Figure 11. Create a New Volume – 2

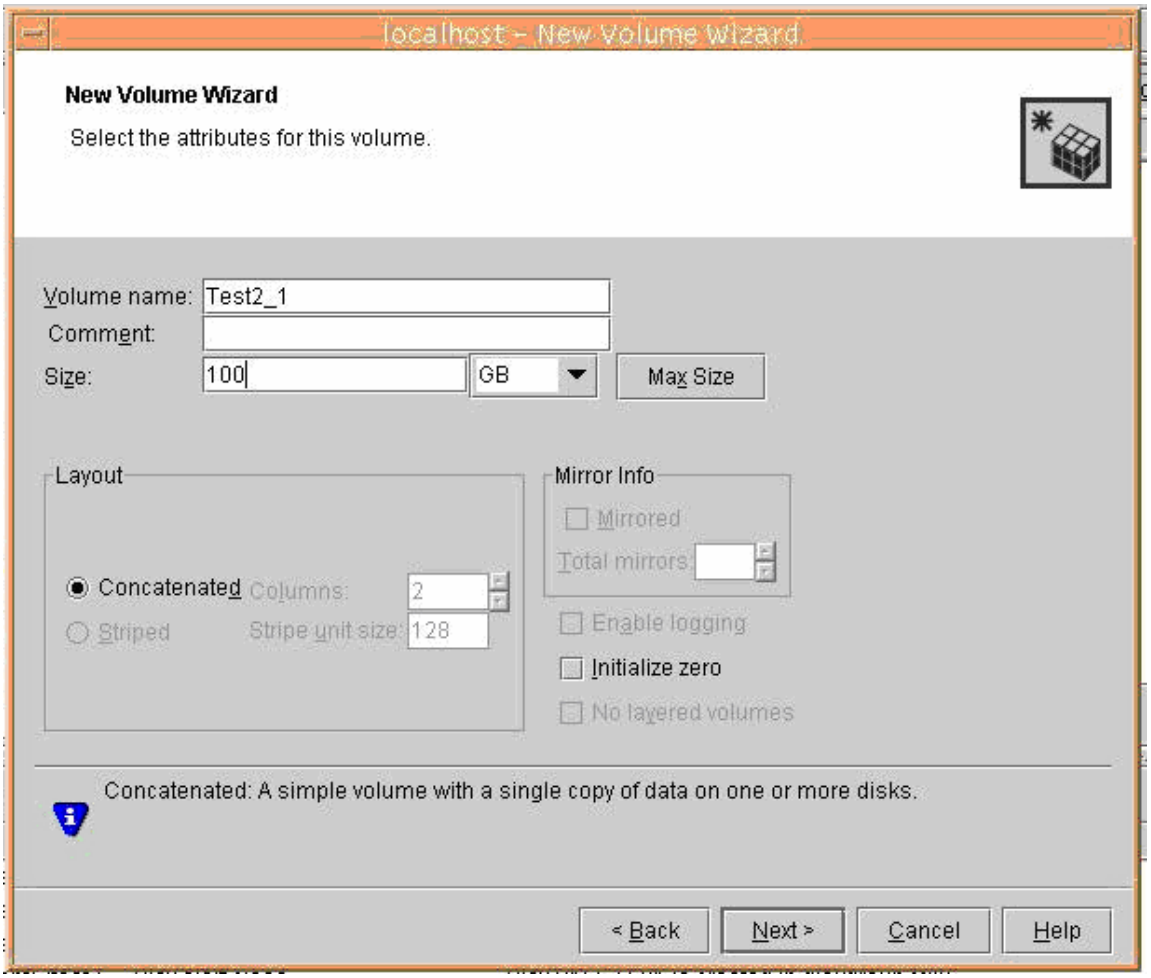

Figure 12. Create a New Volume – 3

In the New Volume Wizard, select file system and set mount point for the volume.

Note: The mount point should be an empty directory.

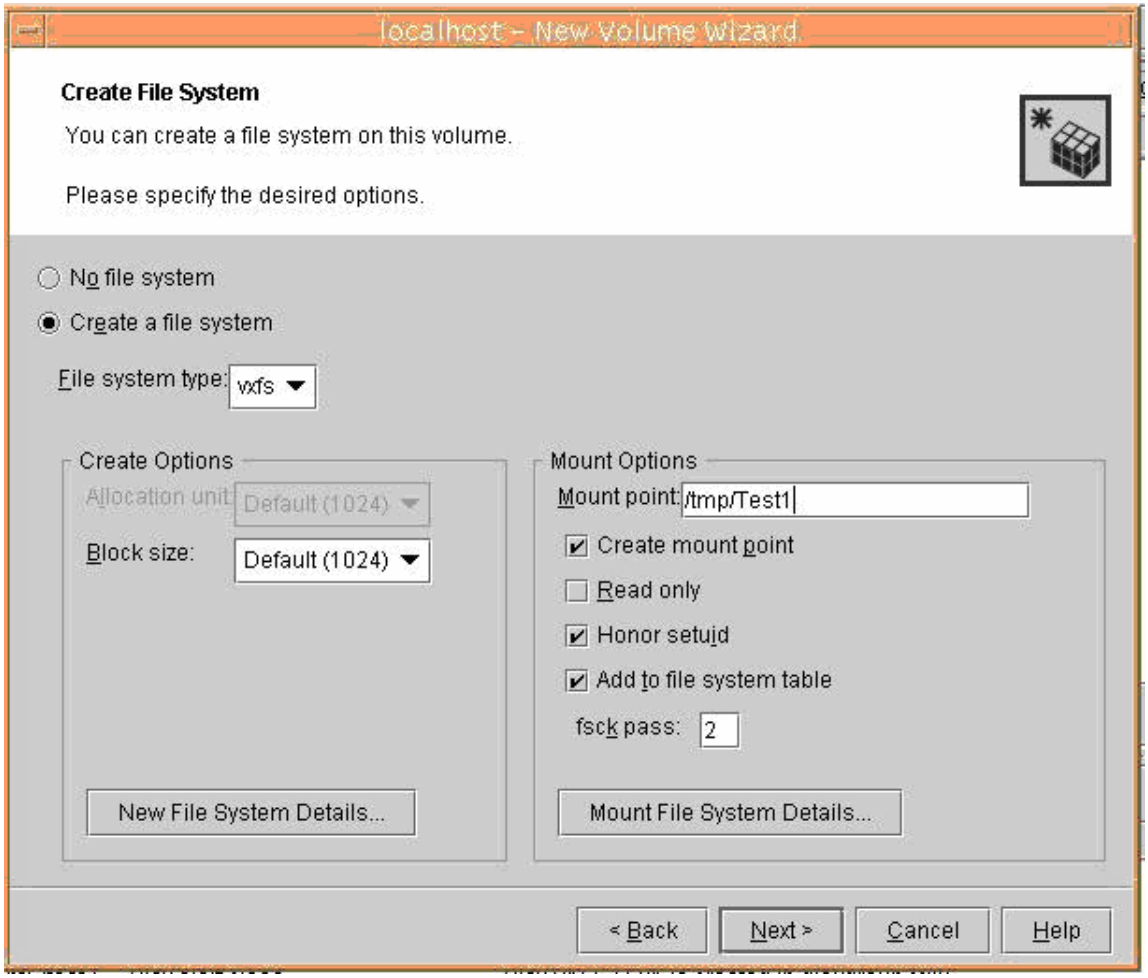

Figure 13. Create a New Volume – 4

After finishing the creation process, you can see the disk show in right panel when you select the disk group it belongs to.

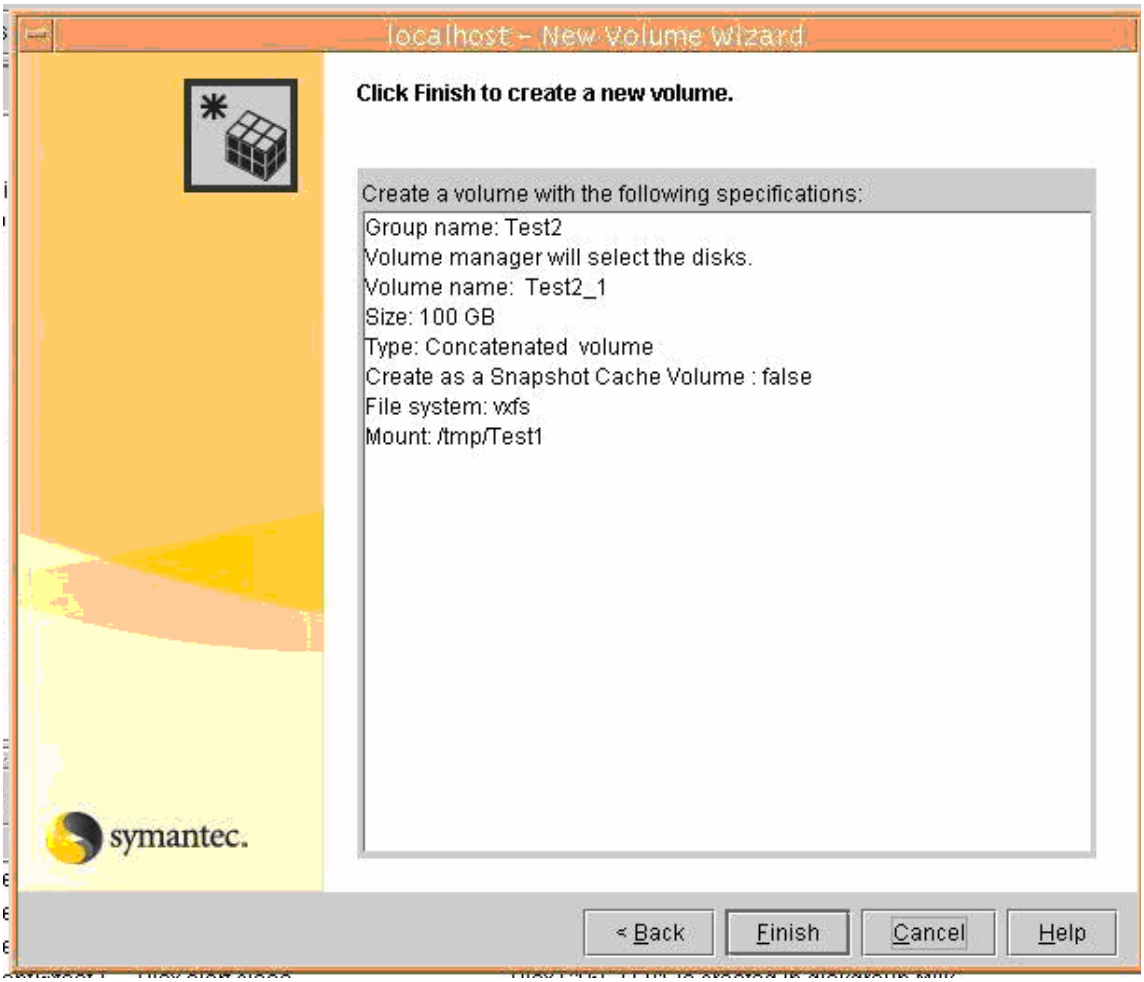

Figure 14. Create a New Volume – 5

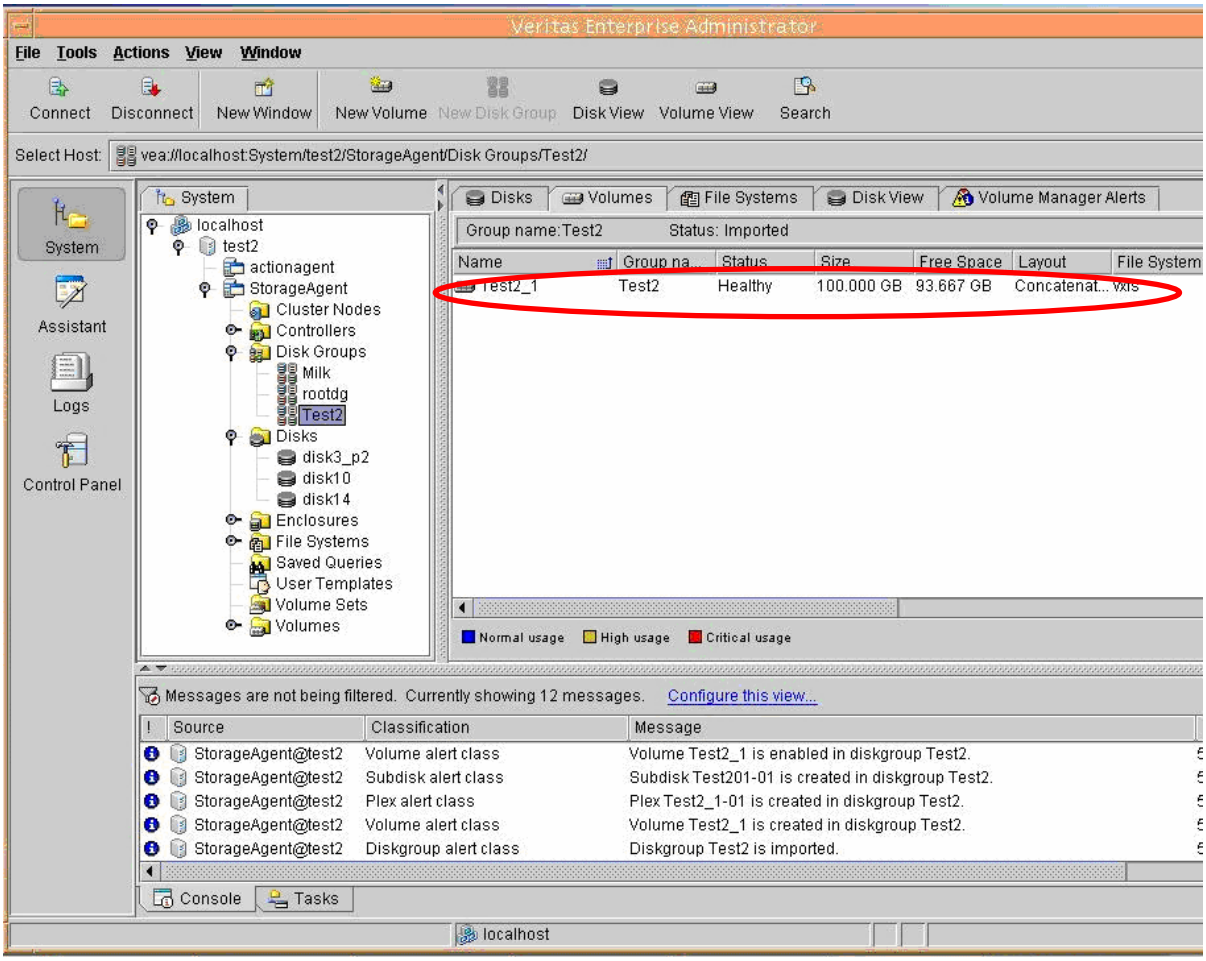

Figure 15. Create a New Volume – 6

Now the storage space on EonStor storage systems are available for your HP server.

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